Histograms on nonCovid-19 Environment graphics and Environments With Applying Filters.

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Abstract. *This research shows several histograms[12] of an image of noncovid-19 in the uprise of physical interaction and contact turning to noncovid-19 with an application of relief, invert and aging filters. This research shows covidgrams after the image processing of the environment depicting an analog of vaccine intake-gram graphs.*

Keywords. environment; invert; image; colors; filter; relief; histograms aging; covidgrams;

1- Introduction

A physical[2]-free contact is possible to be physically present to a contact person without possibly touching each other. The understanding of transport of the current pandemic illness or disease is physical contact not distant at about 2-metres apart. The physical point of transmission with a COVID[3] patient is possible when a face

mask[5] is not placed or weared on. The daily activity of a healthy non-Covid is anticipated to be placed in a non-quarantine centre and monitored at self-pace. The lockdown is a problem in a quarantine period when we are all aware of the point of transmission in a COVID environment[6].

The transmission of COVID-19 is a cross transport in a non-clean environment of a COVID present virus[4]. A physical contact is a presence between 3 or more people. A healthy physical point can be achieved when two or more people are face masked with a non-transmissible, a more nose-mouth mask. A COVID transmit point is possible when a nose-mouth mask. A COVID transmit point is possible when a nose-mouth mask is desirable in a COVID-prone environment.

In other sense, a physical person has no face mask on and having a physical contact with others. The idea of physical contact is scientifically known in the context of physical contact in energy generation[7] or physical attraction. In the sense of energy generation, that is the generation of chemical energy. In harvesting the source of energy is the storage of chemical energy in a vaccine. An unattended and constant source of chemical energy in storage in vaccine is

necessary in providing a infectious prevention.

An isolated and self-quarantine community is freed from the physical environment COVID-19 present virus.

2- Filter Application and its Histograms

Image processing[8] of the NCE graphics will proceed with filter applications of invert, aging and relief filters. The graphics, Illustraction 1 pictorially shows a face with dark green and light green colors. This graphics of noncovid environ is going to filtered to generate a covid environ from the image processing.

The filter application is performed with the image processor

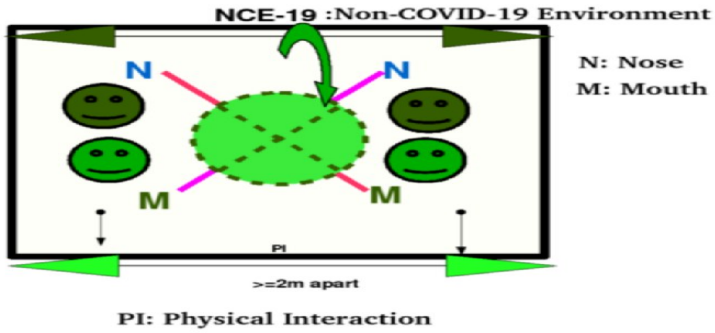


Illustration 1: NCE Environ Graphics

provided with OpenOffice[9] wordprocessor.

*The histograms of Illustration 1 is looked at in terms of RGB8, R, G, B, L*a*b, L*, a* and b* logarithmics are shown in Illustrations 2, 3, 4, 5, 6, 8 and 9.*

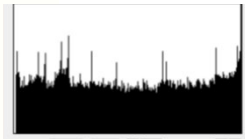


Illustration 2: R Histogram: NCE Environ

The novelty here is in the graphic colors chosen to effect the violet nature of a covid virus. Green as in traffic light means to go safe across a road of vehicles. Yellow means a partial-safe crossing a road and finally Red means to stop crossing a road.

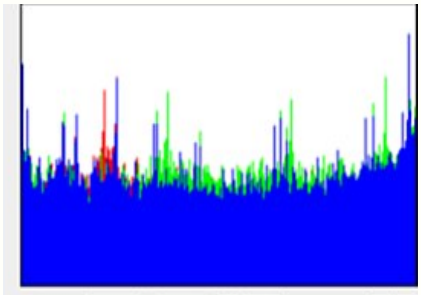


Illustration 3: RGB8 Histogram

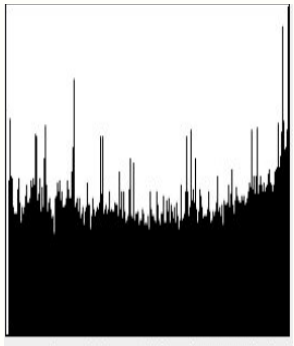


Illustration 4: B Histogram: NCE Environ

Inverting the noncovid environ graphics, Figure 1 with an invert filter creates covid graphics as illustrated below in Figure 2.

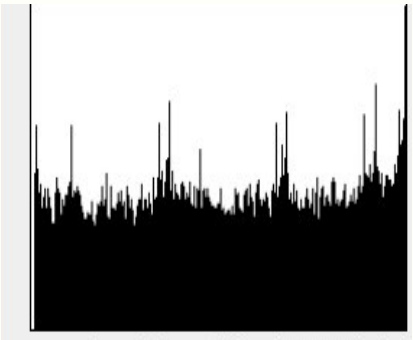


Illustration 5: G Histogram: NCE Environ

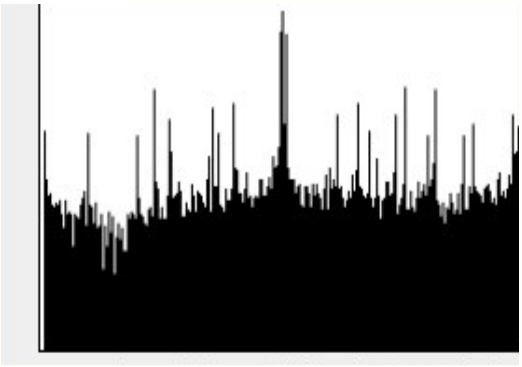


*Illustration 6: L*a*b Histogram:NCE Environ*

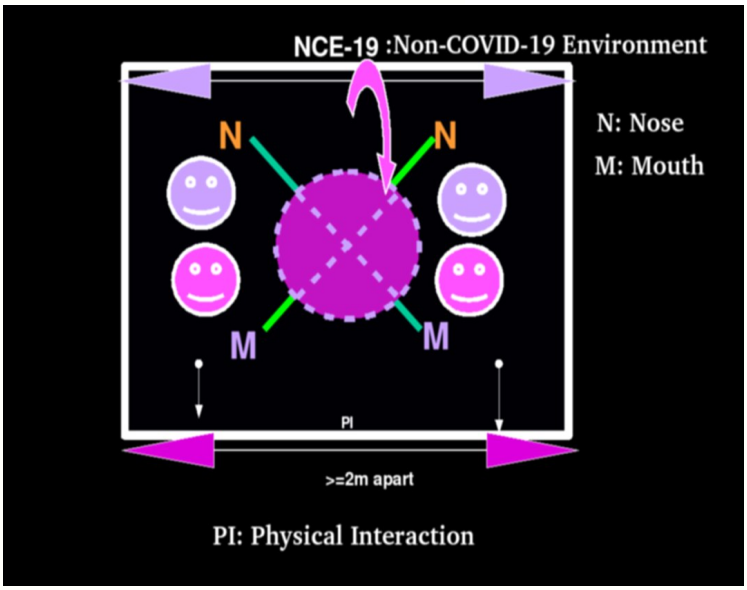


Illustration 7: NCE Environ Graphics with Invert Filter

A noncovid inversion is a version of covid environment. After the inverted application, the following colors are evolved in the process:

Noncovid Color	***Covid Color***
Dark Green	Violet
Light Green	Magenta
Blue	Orange
Black	White
Red	Green
Magenta	Green

Illustration 8: a-histogram:NCE Environ*

An aging NCE environment is achieved with aging filter application on the NCE graphics.

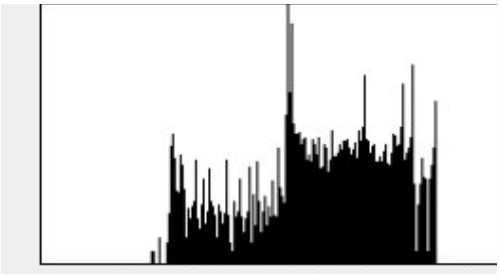


Illustration 9: b-Histograms: NCE Environ*

*The histograms of Illustration 7 is looked at in terms of RGB8, R, G, B, L*a*b, L*, a* and b* logarithmics are shown in Illustrations 10, 11, 12, 13, 15 and 16.*

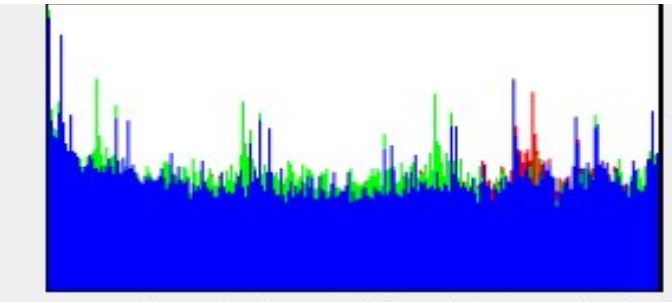


Illustration 10: RGB8-histogram: Invert NCE Environ

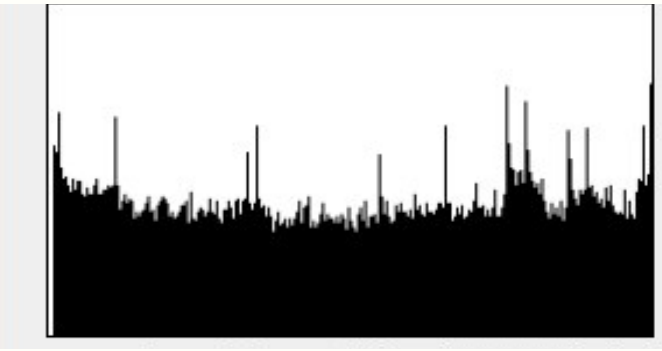
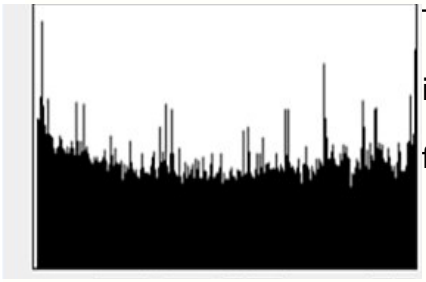


Illustration 11: R-histogram: Invert NCE Environ



The color changes that occurred in the aging process are as follows:

Illustration 12: G-histogram: Invert NCE Environ

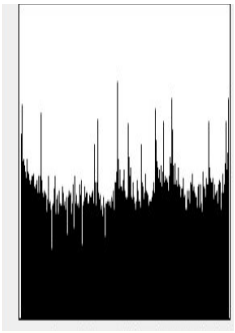


Illustration 13: B-histogram: Invert NCE Environ

Noncovid Colors	***Covid Colors***
Dark Green	Light Gray
Light Green	Dark Gray
Blue	Gray
Black	Gray
Red	Gray
Magenta	Gray

A positive degree of aging filter application in an NCE

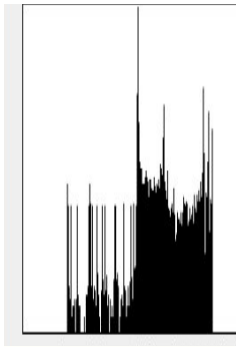


Illustration 14: L-histogram: Invert NCE Environ*

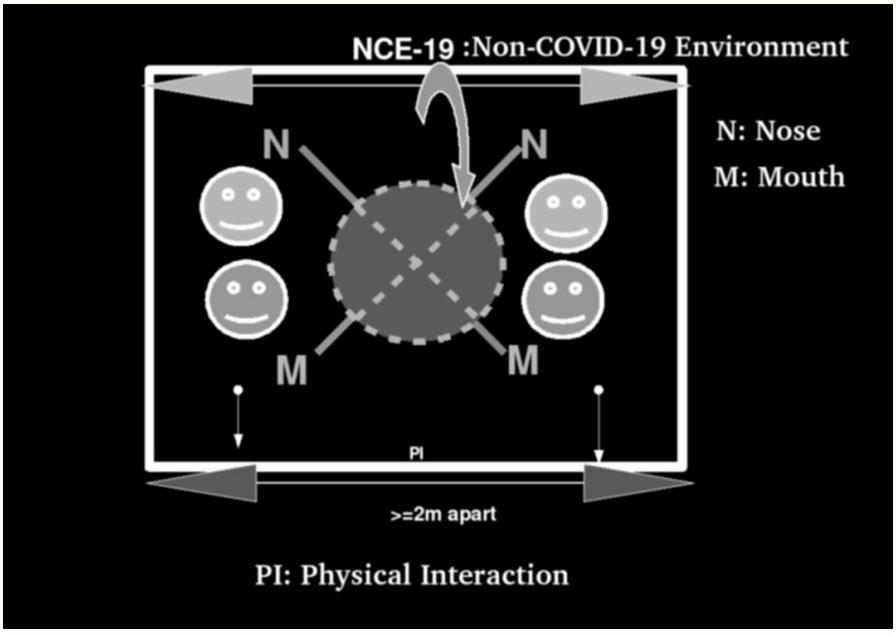


Illustration 15: NCE Environ Graphics with Aging Filter with -100%

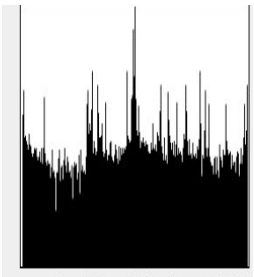


*Illustration 16: L*a*b-histogram: Invert NCE Environ*

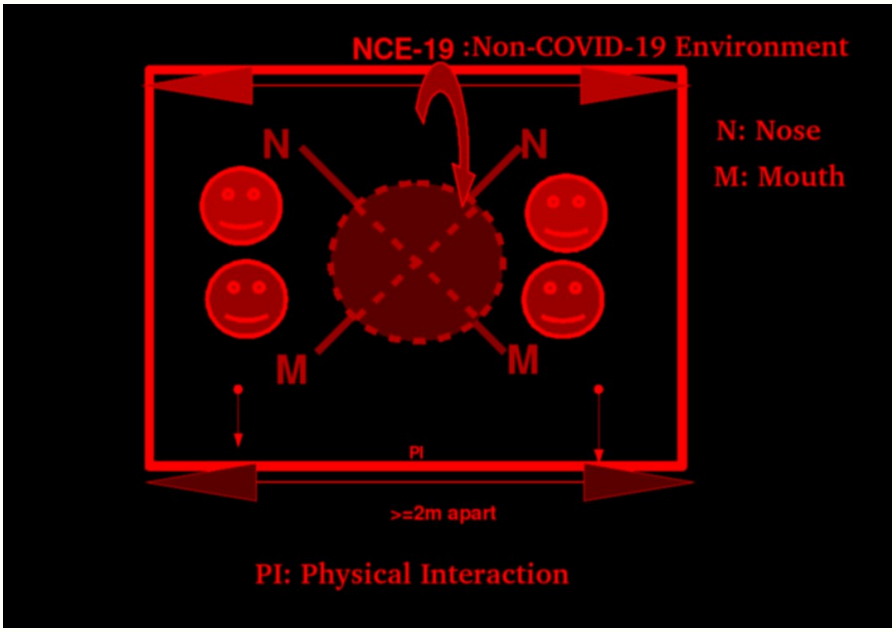


Illustration 17: NCE Environ Graphics with Aging Filter with 100%

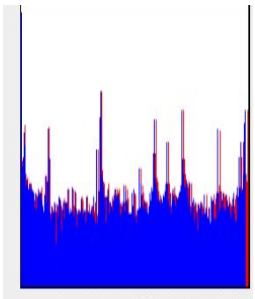


Illustration 18: RGB8-histogram: Aging

The color changes that occurred in the aging process are as follows:

Noncovid Colors	***Covid Colors***
Dark Green	Light Red
Light Green	Dark Red
Blue	Red
Black	Red
Red	Red
Magenta	Red

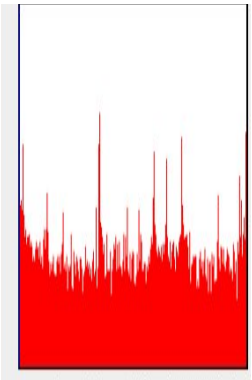


Illustration 19: RGB8-Histogram: Aging 100%

*The histograms of Illustration 17 is looked at in terms of RGB8 and L*a*b logarithmics are shown in Illustrations 19*

and 20.

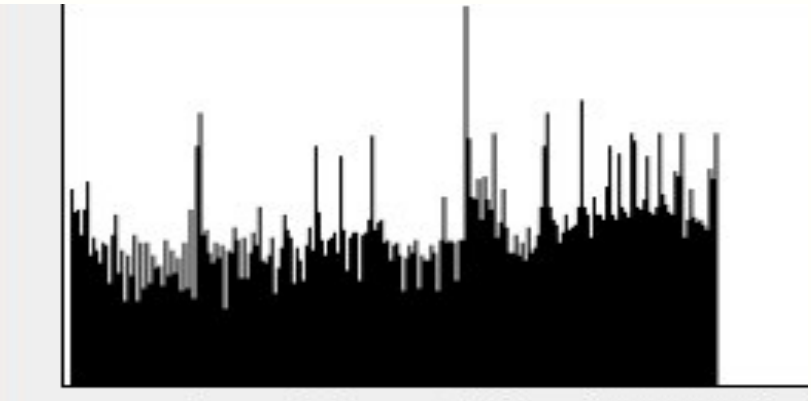


*Illustration 20: L*a*b-Histogram: Aging 100%*

The final filter application is the relief filter on NCE environment graphics.

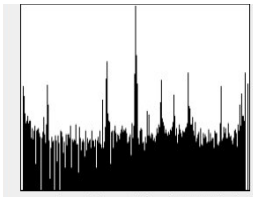


*Illustration 21: L*a*b-histogram: Aging*

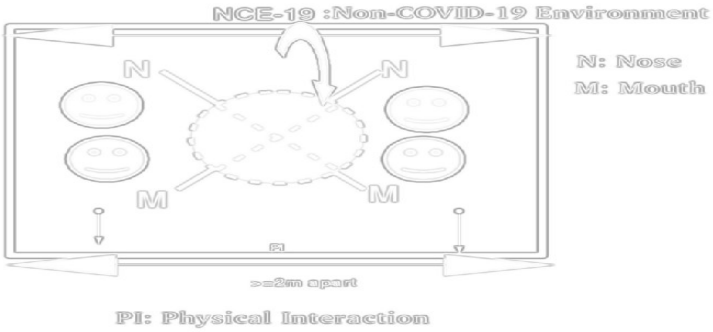


Illustration 22: NCE Environ Graphics with Relief Filter.

The color changes that occurred in the relief process are as follows:

Noncovid Colors	***Covid Colors***
Dark Green	Fade Black

Noncovid Colors	*Covid Colors*
Light Green	Pale Black
Blue	Fade Black
Black	Fade Black
Red	Fade Black
Magenta	Fade Black

*The histograms of Illustration 22 is looked at in terms of RGB8 and L*a*b logarithmics are shown in Illustrations 23 and 24.*

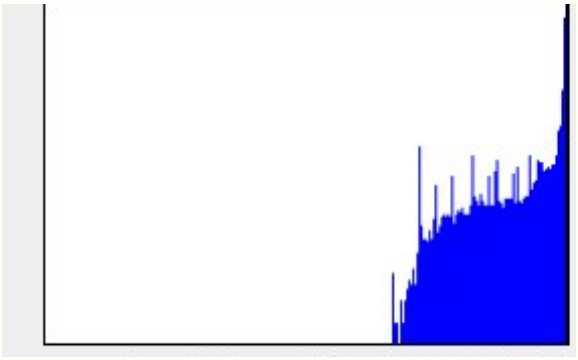


Illustration 24: RGB8-Histogram:Relief

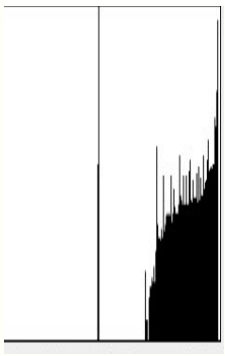


*Illustration 23: L*a*b-Histogram: Relief*

3- Conclusion

This work[1] did take an extensive look on filter applications on NCE graphics specfically on invert, aging and relief filters

1 An Inversion of Covid-19 Environ into a Noncovid-19 Environment With a Filter. Ref. -Appiah, 2020.

with histogram. This can show an environment that have a grams of vaccine[11] in stopping cross infectious disease. A centred relief on NCE graphics shows a total pale or faded scale environment as vaccine grows in defending the infectious diseases.

4- References

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About Author.

Dr. Frank Appiah hold studentships at the Bsc. (Bachelor in computer engineering, *Kwame Nkrumah University of Science and Technology*) in 2008, Msc.(software engineering, *King's College London*) in 2009/10 and 2 doctorates of philosophy (DPhil / PhD) in computer engineering from *Kwame Nkrumah University of Science and Technology in 2013.* He did his doctor of philosophy in computer science and engineering in 2011/2012 at King's College London and his postgraduate studies. Dr. Frank Appiah is a research fellow at Kwame Nkrumah University of Science and Technology and assistant professor at King's College London, University of London.